



**Canon**

*PowerShot*  
ELPH 500 HS

**IXUS 310 HS**

## **Camera User Guide**

- Make sure you read this guide, including the "Safety Precautions" section, before using the camera.
- Reading this guide will help you learn to use the camera properly.
- Store this guide safely so that you can use it in the future.

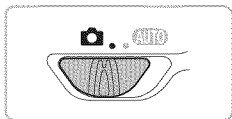
**ENGLISH**

# 6

## Getting More Out of Your Camera

This chapter explains how to shoot in **Tv** and **Av** modes.

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## Setting the Shutter Speed

You can set the shutter to the speed at which you want to shoot. The camera will set the appropriate aperture value for the shutter speed you set.


**Tv** stands for "Time value".



### 1 Choose a Shooting mode.

- Follow Steps 1 – 2 on p. 64 to choose **Tv**.

### 2 Adjust the setting.

- Touch the [1/125].
- Touch the bar, or drag it left or right, to choose a shutter speed, then touch .

### 3 Shoot.

## Available Shutter Speeds

15", 13", 10", 8", 6", 5", 4", 3"2, 2"5, 2", 1"6, 1"3, 1", 0"8, 0"6, 0"5, 0"4, 0"3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/13, 1/15, 1/20, 1/25, 1/30, 1/40, 1/50, 1/60, 1/80, 1/100, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1000, 1/1250

- 2" indicates 2 seconds, 0"3 indicates 0.3 second and 1/160 indicates 1/160 second.
- Depending on the zoom position, some shutter speeds may not be available.



- When shutter speeds of 1.3 seconds or slower are used, images are processed to eliminate noise after being taken. A certain amount of processing time may be needed before you can take the next shot.
- You should set the [IS Mode] to [Off] when lowering the shutter speed and shooting with a tripod (p. 173).
- When shutter speeds of 1.3 seconds or slower are used, the ISO speed is fixed to  $\frac{150}{100}$ .

## ? What if the aperture value appears in orange?

If the aperture value appears in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the shutter speed until the aperture value appears in white (Safety shift can also be used (p. 110)).

## Setting the Aperture Value

You can set the aperture to a value at which you want to shoot. The camera will set the appropriate shutter speed for the aperture value you set.

**Av** stands for “Aperture value”, which refers to the size of the aperture opening inside the lens.



### 1 Choose a Shooting mode.

- Follow Steps 1 – 2 on p. 64 to choose **Av**.

### 2 Adjust the setting.

- Touch [F4.0].
- Touch the bar, or drag it left or right, to choose an aperture value, then touch ↻.

### 3 Shoot.

## Available Aperture Values

F2.0, F2.2, F2.5, F2.8, F3.2, F3.5, F4.0, F4.5, F5.0, F5.6, F5.8, F6.3, F7.1, F8.0

◦ Depending on the zoom position, some aperture values may not be available.






### What if the shutter speed appears in orange?

If the shutter speed appears in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the aperture value until the shutter speed appears in white. Safety shift can also be used (see below).



### Safety Shift

In **Tv** and **Av**, if you touch **FUNC.** or **MENU** side to display the  tab, and set [Safety Shift] to [On], the shutter speed or aperture value is automatically adjusted for the correct exposure when it cannot otherwise be obtained.



Safety Shift is disabled when the flash is enabled.

## Using Various Functions for Shooting Movies

This chapter serves as a more advanced version of the “Shooting Movies” and “Viewing Movies” sections in Chapter 1, and explains how to use various functions for shooting and viewing movies.

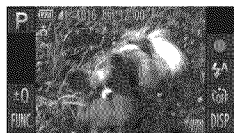
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- This chapter assumes that you have set the mode switch to .
- The latter half of the chapter explaining movie playback and editing assumes that you have pressed the  button to enter Playback mode.

# Shooting Various Kinds of Movies



Just as with still images, you can let the camera select the best settings for the scene or add various effects while shooting movies.














## 1 Choose a Shooting mode.

- Follow Steps 1 – 2 on p. 64 to choose a Shooting mode.

## 2 Shoot.




- Touch .
- ▶ Depending on the Shooting mode or movie image quality (p. 116) you choose, black bars may appear on the sides of the screen. These areas will not be recorded when shooting.
- To stop shooting the movie, touch .

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## Other Shooting Modes




You can shoot the following kinds of movies in  and  modes.

	iFrame Movie	Shoots movies that can be edited with iFrame* <sup>1</sup> compatible software* <sup>2</sup> or devices. Recording pixels are fixed to  (p. 116).
	Super Slow Motion Movie	Shoot fast moving subjects and play them back in slow motion (p. 114).

\*<sup>1</sup> Video type advocated by Apple.

\*<sup>2</sup> You can quickly edit and save iFrame movies with version 6.7.2 or later of ZoomBrowser EX or ImageBrowser. If you are using an earlier version of the software, download the latest version from the Canon home page. You can check the version of the included software on the top of the CD-ROM (p. 2).




- You can also record movies in other Shooting modes by touching .
- Certain settings made in the FUNC. and Shooting menus will automatically change to match settings for shooting movies.
- Even in  or  mode, you can shoot still images when you press the shutter button. However, this is not possible while shooting a movie.

# Shoot Movies That Look Like a Miniature Model (Miniature Effect)






You can shoot movies that look like moving miniature models. You create the miniature model effect by choosing the upper and lower portions of the scene that will be blurred, and the playback speed, which makes people and objects in the scene move quickly during playback. Audio will not be recorded.

## 1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .
- ▶ A white frame (the area that will not be blurred) appears on the screen.




## 2 Choose the area to keep in focus.

- Touch the screen to change the area to keep in focus.
- Touch , then touch ,  or  to change the size of the focused area and touch .





## 3 Choose a playback speed.

- Touch **10x**, then touch **5x**, **10x** or **20x** to choose a playback speed and touch .





## 4 Shoot.

- Touch .
- To stop shooting the movie, touch .

## Playback Speeds and Estimated Playback Times (for 1 Min. Clips)

Speed	Playback Time
5x	Approx. 12 sec.
10x	Approx. 6 sec.
20x	Approx. 3 sec.




- The image quality will be fixed at 640 when an aspect ratio of 4:3 is chosen, and 1280 when an aspect ratio of 16:9 is chosen (p. 90).
- If you touch  in Step 2, the frame will switch to vertical orientation and you can change the area to keep in focus by touching the screen. Touch  again to return the frame orientation to horizontal.
- Holding the camera vertically will change the orientation of the frame.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

## Shooting Super Slow Motion Movies

You can shoot fast moving subjects and play them back in slow motion. Audio will not be recorded.

### 1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .

### 2 Choose a frame rate.

- After touching FUNC., drag the menu appearing on the left side of the screen up or down to choose 240, then touch the menu item again.
- Choose a frame rate (the number of frames per second), then touch the menu item again.





### 3 Shoot.

- Touch ●.
- ▶ The bar showing the shooting time will appear. Maximum clip length is approx. 30 sec.
- To stop shooting the movie, touch ■.

## Frame Rates and Playback Times (for 30 Sec. Clips)

Frame Rate	Playback Time
240 fps	Approx. 4 min.
120 fps	Approx. 2 min.



### Viewing super slow motion movies

- The movie will play back in slow motion when you follow Steps 1 – 3 on p. 33.
- You can use the included software to change the playback speed of movies shot in mode. Refer to the *Software Guide* for details.



- The recording pixel setting will be fixed at when shooting in , and when shooting in .
- The focus, exposure and white balance will be set when you touch ●.

# Changing the Image Quality

You can choose among 4 different image quality settings.



## 1 Choose the image quality setting.

- Touch FUNC., then drag up or down the menu on the left to choose **1920**.

## 2 Choose an option.

- Touch an item you want to set.
- Touch the menu item again to complete the setting.
- ▶ The option you set will appear on the screen.

## Image Quality and Shooting Time per Memory Card

Image Quality	Recording Pixels, Frame Rate	Content	Memory Card Capacity	
			4 GB	16 GB
<b>1920</b>	1920 x 1080 pixels, 24 frames/sec.	For shooting full high-definition movies.	Approx. 14 min. 34 sec.	Approx. 59 min. 40 sec.
<b>1280</b>	1280 x 720 pixels, 30 frames/sec.	For shooting high-definition movies.	Approx. 20 min. 43 sec.*1	Approx. 1 hr. 24 min. 54 sec.*2
<b>640</b>	640 x 480 pixels, 30 frames/sec.	The image quality will be higher when compared with <b>320</b> , but the recording time will be shorter.	Approx. 43 min. 43 sec.	Approx. 2 hr. 59 min. 3 sec.
<b>320</b>	320 x 240 pixels, 30 frames/sec.	Since the file size is small, shooting time will increase, but the image quality will decrease.	Approx. 1 hr. 58 min. 19 sec.	Approx. 8 hr. 4 min. 30 sec.

\*1 13 min. 35 sec. for iFrame movies (p. 112).

\*2 55 min. 38 sec. for iFrame movies (p. 112).

▶ Based on Canon's testing standards.

▶ Recording will automatically stop when the clip file size reaches 4 GB, or when the recording time reaches approximately 10 minutes when shooting in **1920** or **1280**, and approximately 1 hour when shooting in **640** or **320**.

▶ Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 6 or higher memory cards are recommended.



Black bars will appear on the sides of the screen in **640** or **320**. These areas will not be recorded when shooting.

## Other Shooting Functions

The following functions can be used in the same way as for still images. Some functions, however, may not be available or may not have an effect depending on the Shooting mode.

- ◊ **Zooming in More Closely On Subjects**

The sound of zoom operations will be recorded.





- ◊ **Using the Self-Timer (p. 58)**
- ◊ **Using the Self-Timer to Prevent Camera Shake (p. 59)**
- ◊ **Adjusting the White Balance (p. 86)**
- ◊ **Changing the Tone of an Image (My Colors) (p. 92)**
- ◊ **Shooting with the AF Lock (p. 99)**
- ◊ **Turning Off the AF Assist Beam (p. 171)**
- ◊ **Displaying Grid Lines (p. 172)**
- ◊ **Changing the IS-Mode Settings (p. 173)**
- ◊ **Changing Icon Order (Icon Layout) (p. 174)**

## Editing




You can trim the beginnings and ends of recorded movies.



### 1 Choose .

- Touch the screen during movie playback to display the movie control panel.
- Touch ,  or the scroll bar to change the displayed frame (frames are the basic units that make up a movie).
- ▶  will change to  at points where you can edit the movie.

### 2 Touch or .

- ▶ [Delete section of movie] will appear on the screen.
- Even if you touch  when it appears, only the portion from the nearest  to the left will be trimmed when [Cut Beginning] is chosen. Only the portion from the nearest  to the right will be trimmed when [Cut End] is chosen.





## 3 Choose a portion to delete.

- Touch [Cut Beginning] or [Cut End].
- [Cut Beginning] will delete from the beginning of the movie to the currently displayed scene.
- [Cut End] will delete from the currently displayed scene to the end of the movie.



## 4 Save the edited movie.

- Touch [New File].
- ▶ The movie will be saved as a new file.
- To cancel editing, touch [Cancel].
- To reset the editing range, touch ↶.




- When [Overwrite] is chosen in Step 4, the unedited movie is overwritten with the edited movie, erasing the original.
- When there is not enough space left on the memory card, only [Overwrite] can be chosen.
- If the battery is depleted partway through saving, the edited movie clips may not be saved.
- When editing movies, you should use a fully charged battery, or an AC adapter kit (sold separately) (p. 39).

# 8

## Using Various Playback and Editing Functions

This chapter explains various ways to play back and edit images.

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- Press the  button to enter Playback mode before operating the camera.



- It may not be possible to play back or edit images that have been edited on a computer, have had their file names changed, or have been taken on a different camera.
- The edit function (pp. 145 – 150) cannot be used if the memory card does not have enough free space available.


# Quickly Searching Images

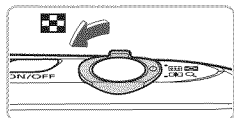
## Searching Images Using Index Display


Displaying multiple images at the same time lets you quickly find the image you want.



### 1 Display images in an index.

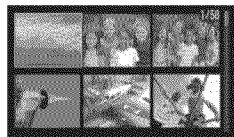
- After touching , touch the number of images you want to display.



- ▶ Images will display in an index.
- You can also move the zoom lever toward  to display images in an index. Move the zoom lever toward Q to reduce the number of images.

### 2 Switch the displayed images.

- If you drag up or down the screen, images will switch with the movement of your finger.

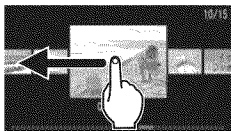


### 3 Choose an image.

- Touch an image to choose it, then touch it again to display it in single image playback.
- You can also drag across the screen to move the orange frame, then move the zoom lever toward Q to display an image by itself.

## Searching Images by Scrolling

Dragging across the screen will display images in a line letting you quickly search them. You can also jump by the shooting date (Scroll Display).



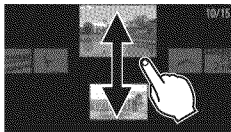
### Choose an image.



- You can switch between images in single image playback by dragging across the screen.

Continuously dragging quickly across the screen will display the screen on the left (Scroll Display).

In this display, drag across the screen to choose images.

- Touching the center image restores single image playback.
- While in Scroll Display, if you quickly drag up or down the screen, you can search images by the shooting date.




To turn off this effect, touch **FUNC.** and then **MENU.** Choose [Scroll Display] in the  tab, then touch  to choose [Off].

## Viewing Movies Made with Movie Digest

You can select movies made in  mode (p. 67) by date for viewing.



### 1 Choose .

- After touching FUNC., drag the menu appearing on the left side of the screen up or down to choose , then touch the menu item again.

### 2 Choose a movie date.

- Touch a date to choose it.

### 3 Play the movie.


- Touch the date chosen in Step 2.
- ▶ The movie will play.

## Viewing Images in Filtered Playback

When there are many images on the memory card, you can filter and display them by a specified filter. You can also protect (p. 137) or delete (p. 139) all images at once while filtered.



### 1 Choose .


- Touch FUNC., then drag up or down the menu to the left to choose .

### 2 Choose a filter.


- Touch an item you want to set.
- If you drag up or down the menu on the right, other items will appear.
- Touch the item you chose again to complete the setting.



### 3 View the filtered images.

- Touch the desired filter, then touch it again (except for ★).
- ▶ Filtered playback starts and a yellow frame appears.
- If you drag across the screen, only the chosen target images will display.
- If you choose  in Step 2, filtered playback will be canceled.

## Search filters

★ Favorites	Displays the images tagged as favorites (p. 141)
✓ Shot Date	Displays the images shot on a specified date
My Category	Displays the images of a specified category (p. 143)
Still image/Movie	Displays still images, movies or movies made in  mode.



### What if you cannot choose a filter?

Filters that do not have any corresponding images cannot be chosen.



### Filtered playback


In filtered playback (Step 3), you can view filtered images with “Quickly Searching Images” (p. 120), “Viewing Slideshows” (p. 124), and “Magnifying Images” (p. 127). You can process all filtered images at once while performing operations in “Protecting Images” (p. 137), “Erasing Images” (p. 139), or “Printing from the Print List (DPOF)” (p. 159), by choosing all of the filtered images. However, if you change the category (p. 143), or edit an image and save it as a new image (p. 145), a message will appear, and filtered playback will cancel.

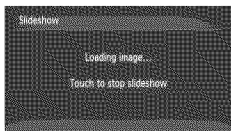
## Viewing Slideshows

You can automatically play back images recorded to a memory card. Each image displays for approximately 3 seconds.



### 1 Choose .

- After touching FUNC., drag the menu appearing on the left side of the screen up or down to choose , then touch the menu item again.



### 2 Choose a transition effect.

- Touch an effect to choose it.
- Touch the menu item again to complete the setting.
- ▶ The slideshow will start a few seconds after [Loading image...] appears.
- In filtered playback (p. 123), only images matching a filter play back.
- Touch the screen to stop the slideshow.




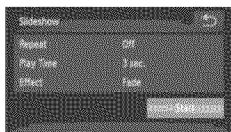
- You can switch images if you lightly tap the camera (p. 29) during a slideshow (Active Display).
- The power saving function (p. 52) does not work during slideshows.
- You can also use Touch Actions to start a slideshow (p. 131).

## Changing Settings

You can set a slideshow to repeat, or change transition effects and the time that slideshow images are displayed. You can choose from 6 transition effects when switching between images.

### 1 Choose [Slideshow].

- Touch **FUNC.**, then **MENU** to choose the  tab, and touch [Slideshow].



### 2 Choose a setting.

- Touch an item, then touch ◀▶ to make the setting.
- If you touch [Start], the slideshow starts with your settings.
- Touching the screen during playback will restore the menu screen.

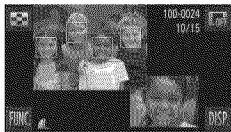


You cannot change [Play Time] if [Bubble] is chosen in [Effect].



## Checking the Focus

You can magnify the area of a recorded image that was inside the AF Frame to check the focus.



### 1 Touch DISP, to switch the focus check display (p. 44).

- ▶ A white frame will appear where the AF frame was when the focus was set.
- ▶ A gray frame will appear on a face detected during playback.
- ▶ The area within the orange frame appears magnified.



### 2 Switch frames.

- Touch the lower right image, or move the zoom lever toward Q once.
- ▶ The screen shown on the left will appear.
- Touch □□ to move to a different frame when multiple frames appear.

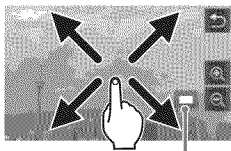
### 3 Change the magnification level or location.

- Moving the zoom lever, or touching the magnified image on the lower right of the screen, or Ⓚ Ⓚ will change the displayed magnification rate.
- If you drag across the image on the lower right, you can move the location of the displayed area.
- Touching ↶, or the image in the upper left resets the display to Step 1.



The focus check display is not available for movies.

## Magnifying Images



Approximate Location of Displayed Area


### Magnify an image.

- When you touch the screen, the image will magnify and and will appear.
- If you keep your finger on the screen, the display will continue to zoom on that part of the image up to a factor of 10x.
- You can also zoom in or out on images by touching or .  
If you touch and hold or , the display will continue zoom in or out on the image.
- If you drag across the screen, you can move the location of the displayed area.
- Touch to restore single image playback.
- You can also tap the side of the camera gently (p. 29) to switch between images at the same zoom factor (Active Display).





- If you move the zoom lever toward , the display will zoom in on the image and, if you continue to hold the zoom lever, it will continue to zoom in up to a maximum factor of 10x. To zoom out, move the zoom lever toward , or continue to hold it to return to single image playback.
- Movies cannot be magnified.

## Viewing Each Image in a Group

Grouped images taken in  mode (p. 80) can also be viewed individually.




### 1 Choose an image group.

- Drag left or right across the screen to choose an image that displays , then touch .



### 2 View each image in the group.


- If you drag left or right across the screen only the images in the group will be displayed.
- Touch  to exit group playback.



### Group playback


In group playback (Step 2 above), you can use the FUNC. menu functions that appear when you touch **FUNC.**, as well as search (p. 120) and magnify (p. 127) images. You can process all the images in a group at once while performing operations in "Protecting Images" (p. 137), "Erasing All Images" (p. 139), or "Printing from the Print List (DPOF)" (p. 159), by choosing a set of grouped images.

## Ungrouping Images

Grouped images taken in  mode can be ungrouped and viewed individually.






### 1 Choose [Group Images].

- Touch FUNC., and then MENU to choose [Group Images] in the  tab.



### 2 Choose a setting.

- Touch  to choose [Off].
- Touch  to complete the setting and restore single image playback.
- ▶ Grouped images taken in  mode are ungrouped and appear individually.
- To regroup the images, follow the steps above and select [On].




Grouping cannot be canceled while viewing images individually (p. 128).

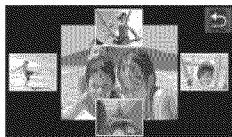
## Displaying Various Images (Smart Shuffle)

The camera will choose four images based on the displayed image. If you choose one of those images, the camera will select four more images letting you enjoy playing back images in an unexpected order. This will work best if you take many shots of various scenes.




### 1 Choose .


- Touch **FUNC.**, then drag up or down the screen to choose .
- ▶ Four images will appear as possibilities.



### 2 Choose an image.

- Touch the image you want to view next.
- ▶ The chosen image will be displayed in the middle, and the next four possibilities will appear.
- If you touch the image in the center of the screen, it will display full-screen. Touch the screen to restore the original display.
- Touch  to return to single image view.





- Only still images shot with this camera will play back in Smart Shuffle.
-  is not available in the following situations:
  - If there are less than 50 images taken with this camera on the memory card
  - If you play back images not supported by Smart Shuffle
  - During filtered playback

## Changing Image Transitions

You can choose from 3 transition effects when switching between images in single image playback.



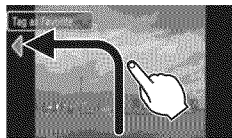
### Choose [Transition].


- Touch **FUNC.** and then **MENU** to choose [Transition] in the  tab, then touch  to choose an effect.

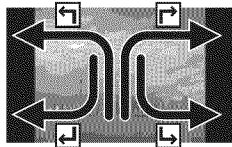
## Easy Operations with Touch Actions




In single image playback, you can quickly and easily call up functions that have been registered to each of four set dragging patterns (Touch Actions).

### Use a Function Registered to



- Drag across the screen as shown.
- ▶ The function registered to  will be called up.




- By dragging across the screen as shown, you can also call up the functions registered to ,  and .
- You can change the functions registered to Touch Actions.

## Changing Touch Actions Registered Functions



You can register the functions you want to use easily to each of the drag patterns.

### 1 Choose [Set Touch Actions].

- Touch FUNC., then MENU to choose the  tab, and touch [Set Touch Actions].



### 2 Register a function to a drag pattern.

- Drag up or down the screen to choose a drag pattern.
- Touch   to choose the function to register.

## Functions that Can be Registered

Favorites	Tag or untag images as favorites.
Next Favorite	Switch to the next image tagged as a favorite
Previous Favorite	Switch to the previous image tagged as a favorite.
Next Date	Switch to first image with the next shooting date.
Previous Date	Switch to first image with the previous shooting date.
Smart Shuffle	Start Smart Shuffle playback.
Slideshow	View a slideshow.
Erase	Erase an image.
Protect	Protect or unlock images.
Rotate	Rotate an image.

# Viewing Images on a TV

You can connect the camera to a TV to view images you have shot.



The following functions are available when you perform operations with the camera:

- Switching images  
Drag across the screen, or tap the camera lightly with your finger (pp. 28, 29).
- Movie playback (p. 33)
- Magnification (p. 127)  
Move the zoom lever toward Q.
- Group playback (p. 128)
- Touch Actions (p. 131)  
Smart Shuffle and image erase cannot be called up.  
Since nothing will appear on the camera's screen, look at the TV while using the camera screen to perform operations.

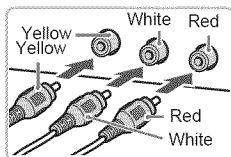
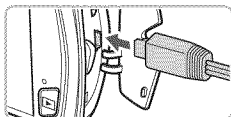
## Viewing Images on a Standard TV

Using the supplied stereo AV cable (p. 2), you can connect the camera to a TV and control the camera.

### 1 Turn off the camera and TV.

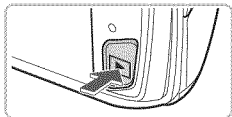
### 2 Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.




### 3 Turn on the TV and switch it to the input the cable is connected to.





### 4 Turn on the camera.

- Press the  button to turn on the camera.
- ▶ The image will appear on the TV (nothing will appear on the screen of the camera).
- Use the camera screen to perform operations.
- After you finish, turn off the camera and TV, and unplug the cable.

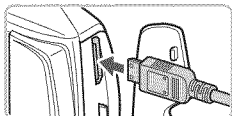
### ? What if the images don't display correctly on the TV?

Images will not display correctly if the camera's video output setting (NTSC/PAL) does not match the TV system. Touch **FUNC.**, then **MENU** to choose the **YT** tab, then choose [Video System] to switch to the correct video system.

## Viewing Images on a High-Definition TV

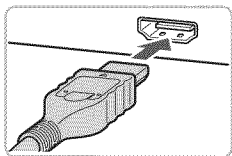
Using the separately sold HDMI Cable HTC-100, you can connect the camera to an HD TV and control the camera.

### 1 Turn off the camera and TV.



### 2 Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Fully insert the cable plug into the TV's HDMI input.



### 3 Display images.

- Follow Steps 3 and 4 on p. 133 to display the images.



Operation sounds will not play when connected to an HD TV.

## Using a TV Remote to Control the Camera

When you connect the camera to an HDMI CEC compatible TV, you can use the TV's remote control to operate the camera and play back images or view slideshows.

You may need to make settings on some TVs. For details, refer to the user guide supplied with the TV.



### 1 Choose [Ctrl via HDMI].

- Touch FUNC., and then MENU to choose [Ctrl via HDMI] in the **YT** tab, then touch **◀▶** to choose [Enable].

### 2 Connect the camera to the TV.

- Follow Steps 1 – 2 on p. 134 to connect the camera to the TV.






### 3 Display images.

- Turn on the TV and press the camera's **▶** button.
- ▶ The image will appear on the TV (nothing will appear on the screen of the camera).

### 4 Use the TV's remote control.

- Press the remote control's **◀▶** buttons to choose an image.
- Press the OK/Select button to display the camera control panel. Press the **◀▶** buttons to choose an item, then press the OK/Select button again.

## Summary of the Camera Control Panel Displayed on the TV

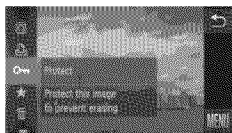
	Return	Closes the menu.
	Group playback	Displays groups of High-speed Burst images (only appears when grouped images are chosen).
	Play movie	Plays a movie (only appears when a movie is chosen).
	Slideshow	Plays back images automatically. During playback, you can press the remote control's ◀▶ buttons to switch images.
	Index playback	Displays images in an index.



- If you move the zoom lever and change the display, you will not be able to control the camera with the TV's remote control unit you return to single image playback.
- Some TVs may not be able to control the camera properly even though they are HDMI CEC compatible.

# Protecting Images

You can protect important images so that they cannot be accidentally erased with the camera (pp. 30, 139).



## Protect the image.

- Touch **FUNC.**, then drag up or down the menu to the left to choose **Protect**.



- ▶ Once set, **Protect** will appear on the screen.
- To unlock an image, touch **FUNC.** again, then drag up or down the screen to choose **Protect**.



If you format the memory card (pp. 23, 165), protected images will also be erased.

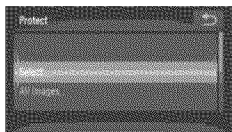


Protected images cannot be erased with the camera's erase function. To erase an image, cancel protection settings first.

## Using the Menu

### 1 Choose [Protect].

- Touch **FUNC.**, then **MENU** to choose the **Protect** tab, and touch **Protect**.



### 2 Choose a selection method.

- Touch a selection method.
- Touch **Protect** to return to the menu screen.

## Choosing Images Individually

### 1 Choose [Select].

- Follow Step 2 on p. 137 to touch [Select].

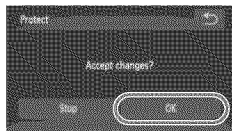


### 2 Choose images.

- Drag on the screen to choose an image, then touch the screen.
- ▶ Once set, ✓ will appear on the screen.
- Touching the screen again deselects the image, and ✓ disappears.
- To choose multiple images, repeat the above operation.

### 3 Protect the image.

- If you touch ↶, a confirmation screen will appear.
- Touch [OK].
- ▶ The images will be protected.



If you switch to Shooting mode or turn off the power before performing the operations in Step 3, images will not be protected.

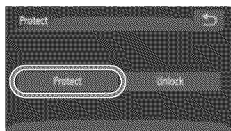


To choose multiple images, touch  in the upper left of the screen and touch the images you want.

## Choose All Images

### 1 Choose [All Images].

- Follow Step 2 on p. 137 to touch [All Images].



### 2 Protect images.

- Touch [Protect].




You can unlock groups of protected images if you choose [Unlock] in Step 2.

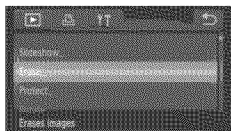
## Erasing All Images

You can choose images and then erase them in groups. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 137) cannot be erased.


## Choose a Selection Method

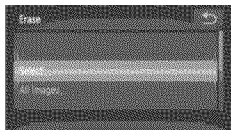
### 1 Choose [Erase].

- Touch FUNC., then MENU to choose the  tab, and touch [Erase].



### 2 Choose a selection method.

- Touch a selection method.
- Touch  to return to the menu screen.



## Choosing Images Individually

### 1 Choose [Select].

- Follow Step 2 on p. 139, touch [Select].

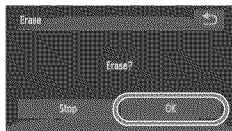



### 2 Choose an image.

- Drag across the screen to choose an image, then touch the screen.
- ▶ Once set, ✓ will appear on the screen.
- Touching the screen again deselects the image, and ✓ disappears.
- To choose multiple images, repeat the above operation.

### 3 Erase.

- If you touch ↶, a confirmation screen will appear.
- Touch [OK].

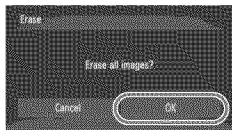


To choose multiple images, touch  in the upper left of the screen and touch the images you want.

## Choose All Images

### 1 Choose [All Images].

- Follow Step 2 on p. 139, touch [All Images].



### 2 Erase.

- Touch [OK].

## Tagging Images as Favorites

When you tag images as favorites, you can easily categorize just those images. You can also filter out just those images for viewing, protecting or erasing (p. 123).



### Make the setting.

- Touch **FUNC.**, then drag up or down the menu to the left to choose ★.



- ▶ Once set, ★ will appear on the screen.
- To unlock an image, touch **FUNC.** again, then drag up or down the menu to the left to choose ★.

## Using the Menu



### 1 Choose [Favorites].

- Touch **FUNC.**, then **MENU** to choose the [Favorites] tab, and touch [Favorites].




### 2 Choose an image.

- Drag across the screen to choose an image, then touch the screen.
- ▶ Once set, ✓ will appear on the screen.
- Touching the screen again deselects the image and ✓ disappears.
- To choose multiple images, repeat the above operation.






### 3 Complete the setting.

- If you touch , a confirmation screen will appear.
- Touch [OK].



If you switch to Shooting mode or turn off the power before completing the setting in Step 3, images will not be tagged as favorites.



- If you use Windows 7 or Windows Vista and transfer tagged images to the computer, they will be given a star rating of 3 (★★★☆☆) (except for movies).
- You can also use Touch Actions to tag images as favorites (p. 131).
- To choose multiple images, touch  in the upper left of the screen and touch the images you want.

## Organizing Images by Category (My Category)

You can organize images into categories. You can display the images in a category in filtered playback (p. 123) and process all images at once by using the functions below.

- “Viewing Slideshows” (p. 124), “Protecting Images” (p. 137), “Erasing All Images” (p. 139), “Choosing Images for Printing (DPOF)” (p. 159)

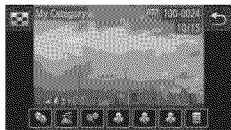


- Images are automatically categorized by shooting condition as they are shot.
  - : Images with detected faces, or images shot in or .
  - : Images detected as , or in **AUTO** mode, or images shot in , or .
  - : Images shot in , , .
- You can also display categories by touching **FUNC.** in Step 2, then choosing the tab, and [My Category].



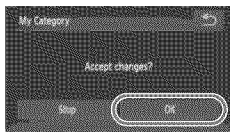
### 1 Choose .

- Touch **FUNC.**, then drag up or down the screen and touch .




### 2 Choose images.

- Drag left or right across the screen to choose an image.
- Touch the desired category.
  - ▶ The chosen category will appear in orange.
- Touch the category again to cancel, and it will turn white.
- To choose multiple images, repeat the above operation.



### 3 Complete the setting.

- If you touch , a confirmation screen will appear.
- Touch [OK].




If you switch to Shooting mode or turn off the power before completing the setting in Step 3, images will not be tagged as My Category.

## Rotating Images

You can change the orientation of an image and save it.






### 1 Choose .




- Touch FUNC., then drag up or down the menu to the left to choose .



### 2 Rotate the image.

- Touch  or  and the image will rotate in the chosen direction in 90° increments.
- Touch  to accept the setting.




- Movies shot at  or  cannot be rotated.
- In the screen in Step 2, if you touch FUNC. then MENU, you can change the icon order by choosing the  tab and [Rotate].
- Images cannot be rotated (p. 176) if [Auto Rotate] is set to [Off].

# Resizing Images

You can resize images to a lower pixel setting and save the resized image as a separate file.



## 1 Choose [Resize].

- Touch **FUNC.**, then **MENU** to choose the  tab, and touch [Resize].

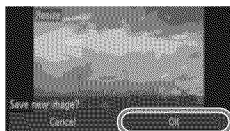
## 2 Choose an image.

- Drag across the screen to choose an image, then touch [OK].



## 3 Choose an image size.

- Touch **M2**, **S** or **XS**, then touch [OK].
  - ▶ [Save new image?] will appear on the screen.




## 4 Save the new image.

- Touch [OK].
  - ▶ The image will be saved as a new file.



## 5 Display the new image.

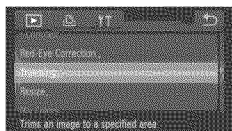
- If you touch , [Display new image?] will appear.
- Touch [Yes].
  - ▶ The saved image will be displayed.




- You cannot resize an image to a larger size.
- Images saved as **XS** in Step 3 cannot be edited.
- Movies cannot be edited.

# Trimming

You can cut out a portion of a recorded image and save it as a new image file.



## 1 Choose [Trimming].

- Touch FUNC., then MENU to choose the  tab, and touch [Trimming].

## 2 Choose an image.

- Drag across the screen to choose an image, then touch [OK].

Trimming Area







Trimming Area Display

Recorded pixels after trimming



## 3 Adjust the trimming area.

- ▶ A frame will appear around the portion of the image to be trimmed.
- ▶ The original image will display in the upper left and the trimmed image will display in the lower right.
- If you move the zoom lever, touch   or the image on the lower right of the screen, you can change the frame size.
- If you drag on the image at the upper left or the image on the lower right, you can move the frame.
- If you touch , you can change the frame orientation.
- In an image with detected faces, gray frames appear around the faces located in the upper left image. The frames can be used for trimming. You can switch between frames by touching .
- Touch [New File].
- ▶ The [Save new image?] screen will appear.

## 4 Save as a new image and display.

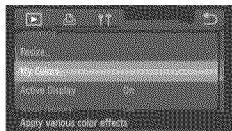
- Follow Steps 4 and 5 on p. 145.




- Images recorded at a pixel setting of **S** (p. 61), or images resized to **XS** (p. 145) cannot be edited.
- Images that can be trimmed will have the same width and height ratio after trimming.
- The number of recorded pixels in a trimmed image will be smaller than before trimming.
- Movies cannot be edited.

# Adding Effects with the My Colors Function

You can change the color of an image and save it as a separate image. Refer to p. 92 for details on each menu item.

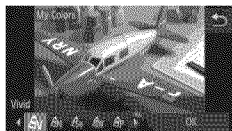


## 1 Choose [My Colors].

- Touch FUNC., then MENU to choose the  tab, and touch [My Colors].

## 2 Choose an image.

- Drag across the screen to choose an image, then touch [OK].



## 3 Choose an option.

- Touch an option.
- Touch ◀▶ to display other available options.
- Touch [OK].
- ▶ The [Save new image?] screen will appear.

## 4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 145.



If you repeatedly change the color of the same image, the quality will gradually deteriorate and you may not achieve the expected color.




- The color of images changed with this function may vary from those recorded with the My Colors function (p. 92).
- My Colors settings cannot be applied to movies.

## Correcting the Brightness (i-Contrast)

The camera can detect areas in an image, such as faces or backgrounds, that are too dark and automatically adjust them to the optimum brightness. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression. You can choose from 4 levels of correction, and save the image as a new file.



### 1 Choose [i-Contrast].

- Touch FUNC., then MENU to choose the  tab, and touch [i-Contrast].

### 2 Choose an image.

- Drag across the screen to choose an image, then touch [OK].



### 3 Choose an option.

- Touch ◀▶ to choose an item, and touch [OK].
  - ▶ The [Save new image?] screen will appear.

### 4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 145.



- Under some conditions, the image may appear coarse or not be corrected properly.
- Repeatedly adjusting the same image may cause it to become coarse.



**What if the image wasn't corrected by the [Auto] option as well as you would like?**

Choose [Low], [Medium] or [High] and adjust the image.

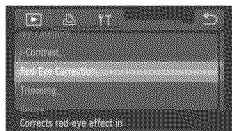


Movies cannot be corrected.




# Correcting the Red-Eye Effect

You can automatically correct red eyes in images and save them as new files.



## 1 Choose [Red-Eye Correction].

- Touch FUNC., then MENU to choose the  tab, and touch [Red-Eye Correction].

## 2 Choose and correct the image.

- Drag across the screen to choose an image, then touch [OK].
- ▶ Red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
- You can magnify or reduce the size of the image using the procedures in "Magnifying Images" (p. 127).



## 3 Save as a new image and display.

- Touch [New File].
- ▶ The image will be saved as a new file.
- Follow Step 5 on p. 145.



- Some images may not be corrected properly.
- When [Overwrite] in Step 3 is chosen, the uncorrected image is overwritten with the corrected data, erasing the original image.
- Protected images cannot be overwritten.



Movies cannot be corrected.

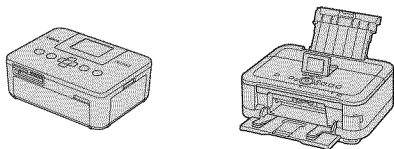
# 9

## Printing

This chapter explains how to choose images for printing, and print using a Canon-brand PictBridge compliant printer (sold separately).

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### Canon-Brand PictBridge Compliant Printers



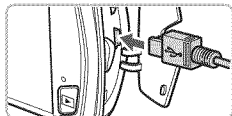
- This chapter uses Canon-brand SELPHY CP series printers in the explanations. The displayed screens and available functions will differ depending on the printer. Please also refer to the Printer User Guide.

# Printing Images

## Easy Print

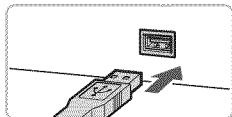
You can easily print the pictures you take by connecting the camera to a PictBridge compliant printer (sold separately) using the supplied interface cable (p. 2).

### 1 Turn off the camera and printer.




### 2 Connect the camera to the printer.

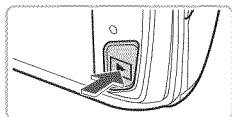
- Open the cover and insert the cable's small plug firmly into the camera terminal in the direction shown.
- Insert the cable's large plug into the printer. For connection details, refer to the user guide provided with the printer.



### 3 Turn on the printer.

### 4 Turn on the camera.

- Press the  button to turn on the camera.




### 5 Choose an image.

- Drag across the screen to choose an image.



### 6 Choose .

- Touch FUNC., then drag up or down the menu at the left to choose .



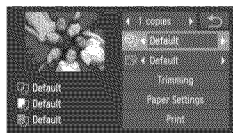
## 7 Print images.

- Touch [Print].
- ▶ Printing will start.
- If you want to print additional images, repeat Steps 5 and 6 after printing has completed.
- After printing has completed, turn off the camera and printer, and unplug the interface cable.



- Refer to p. 40 for Canon-brand PictBridge compliant printers (sold separately).
- Index printing is not available on certain Canon-brand PictBridge compliant printers (sold separately).

# Making Print Settings



## 1 Connect the camera to the printer.

- Follow Steps 1 – 6 on p. 152 to display the screen on the left.

## 2 Choose a menu option.

- Touch an item to choose it.

## 3 Choose the option settings.

- Touch ◀▶ to choose the option setting.

	No. of Copies	Choose the number of copies.
	Default	Follows the printer's settings.
	Date	Prints the date.
	File No.	Prints the file number.
	Both	Prints both the date and file number.
	Off	—
	Default	Follows the printer's settings.
	Off	—
	On	Uses shooting information to optimize print settings.
	Red-Eye1	Corrects red-eye.
	Red-Eye2*	Uses [NR], [Face ] and [Red-Eye1] to correct the image.
	Vivid*	Greens in trees, and blues in the sky and ocean are enhanced to be more vivid.
	NR*	Reduces image noise.
	Vivid+NR*	Uses both [Vivid] and [NR] to correct the image.
	Face  *	Corrects brightness for dark faces, such as in backlit shots.
Trimming	—	Choose the area for printing.
Paper Settings	—	Sets the paper size and layout.

\* Only appears when connected to a PIXMA series printer.

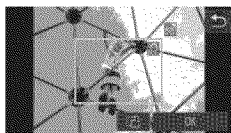
## Trimming and Printing (Trimming)

You can cut out a portion of an image for printing.




### 1 Choose [Trimming].

- Follow Steps 1 – 2 on p. 154 to choose [Trimming].
- ▶ A frame will appear around the portion of the image to be trimmed.



### 2 Choose the trimming area.

- If you move the zoom lever, you can change the frame size.
- Drag the frame to change its position.
- Touch  to rotate the frame.
- Touch [OK] to complete the setting.

### 3 Print images.

- Follow Step 7 on p. 153 to print.



- You may not be able to trim images depending on the aspect ratio, or if they are too small.
- Trimming photos with embedded dates may not show the dates properly.



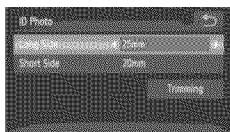
## Available Layout Options

Default	Follows the printer's settings.
Bordered	Prints with a border.
Borderless	Prints without a border.
N-up	Selects how many copies of an images are printed on a sheet.
ID Photo	Prints ID photos. Only images with the same resolution as the camera's L (Large) recording pixel setting and a 4:3 aspect ratio can be chosen.
Fixed Size	Choose the print size. Choose from 3.5 x 5 in., postcard and wide sized prints.

## Printing ID Photos

### 1 Choose [ID Photo].

- Follow Steps 1 – 4 on p. 156 to choose [ID Photo], then touch [Next].



### 2 Choose the length and width.

- Touch an item to choose it.
- Touch ◀▶ to choose a length, then touch [Trimming].



### 3 Choose the printing area.

- Follow Step 2 on p. 155 to choose the printing area.

### 4 Print images.




## Printing Movies



### 1 Connect the camera to the printer.

- Follow Steps 1 – 6 on p. 152 to choose a movie and display the screen on the left.

### 2 Choose a printing method.

- After touching , touch ◀▶ to choose a printing method.

### 3 Print images.

## Printing Methods for Movies

Single	Prints currently displayed scene as a still image.
Sequence	Prints a sequence of images from a specified scene on a single sheet of paper. If [Caption] is set to [On], you can print the folder number, file number, and the elapsed time for the frame at the same time.



- Touching [Stop] during printing will cancel printing.
- [ID Photo] and [Sequence] cannot be chosen on Canon brand PictBridge compliant printers from CP720/CP730 and earlier models.

## Choosing Images for Printing (DPOF)

You can choose up to 998 images on a memory card for printing and specify settings such as the number of copies so that they can be printed together (p. 162) or processed at a photo developer service. These selection methods comply with the DPOF (Digital Print Order Format) standards.



Movies cannot be chosen.


## Adding Images to a Print List with the FUNC. Menu

You can add images to the print list (DPOF) directly after shooting or during playback in the FUNC. menu.

### 1 Choose an image.

- Drag left or right across the screen to choose an image.

### 2 Choose (movies will be excluded).

- After touching FUNC., drag the menu appearing on the left side of the screen up or down to choose , then touch the menu item again.

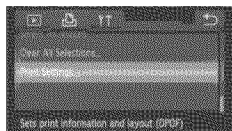
### 3 Add images to the print list.

- Touch ▲▼ to choose the number of prints, then touch [Add].



## Print Settings

You can set the print type, date and file number. These settings apply to all images chosen for printing.



### 1 Choose [Print Settings].

- Touch FUNC., then MENU to choose the tab, and touch [Print Settings].

### 2 Choose a setting.

- Touch ▲▼ to choose and set an option.
- Once you touch , the settings will be made, and the menu screen will reappear.

Print Type	Standard	Prints 1 image per page.
	Index	Prints several reduced size images per page.
	Both	Prints both standard and index formats.
Date	On	Prints the shooting date.
	Off	—
File No.	On	Prints the file number.
	Off	—
Clear DPOF data	On	Removes all print settings after printing.
	Off	—



- Some printers or photo developer services may not be able to reflect all of the settings in the prints.
- may appear when using a memory card with print settings set by a different camera. If you change the settings using this camera, all the previous settings may be overwritten.
- If [Date] is set to [On], some printers may print the date twice.




- With [Index] chosen, the [Date] and [File No.] options cannot be set to [On] at the same time.
- The date will be printed in the style set in the [Date/Time] function in the tab (p. 20).

## Choosing the Number of Copies



### 1 Choose [Select Images & Qty.].

- Touch FUNC., then MENU to choose the  tab, and touch [Select Images & Qty.].

### 2 Choose an image.

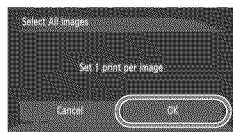
- Drag left or right across the screen to choose an image.
- ▶ You will be able to set the number of print copies.
- For [Index], touch the screen. Once chosen, ✓ will appear. If you touch inside the frame again, ✓ will disappear.



### 3 Set the number of prints.

- Touch ▲▼ to set the number of prints (maximum 99).
- Repeat Steps 2 and 3 to choose other images and the number of prints for each.
- You cannot set the number of copies for index prints. You can only choose which images to print (as shown in Step 2).
- Touch ↶ to complete the setting and return to the menu screen.

## Set All Images to Print Once



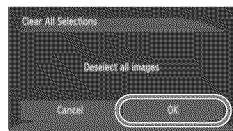
### 1 Choose [Select All Images].

- Follow Step 1 on p. 161 to touch [Select All Images].

### 2 Make print settings.

- Touch [OK].

## Clearing All Selections



### 1 Choose [Clear All Selections].

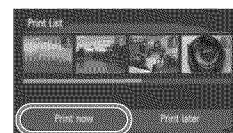
- Follow Step 1 on p. 161 to touch [Clear All Selections].

### 2 All selections will be cleared.

- Touch [OK].



## Printing chosen images (DPOF)

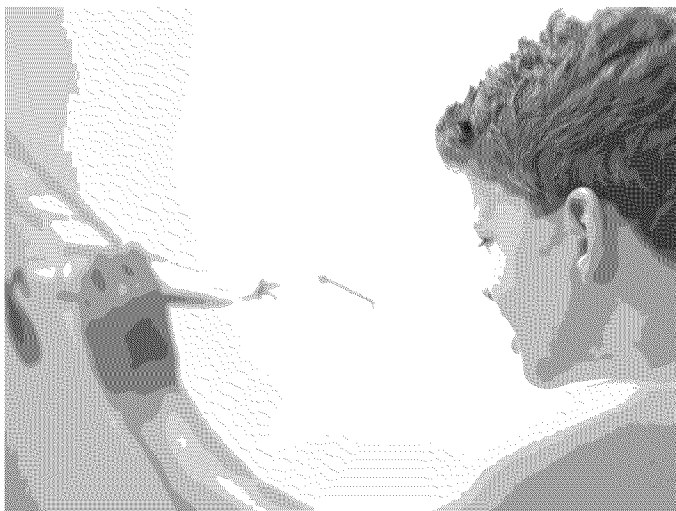


- When there are images added to the print list (pp. 159 – 162), the screen on the left will appear when you connect the camera to a PictBridge compliant printer. Touch [Print now] to easily print images added to the print list.
- If you stop the printer during printing and start again, it will start from the next print.

## Customizing Camera Settings

You can customize various settings to suit your shooting preferences. The first part of this chapter explains convenient and commonly used functions. The latter part explains how to change shooting and playback settings to suit your purposes.

---

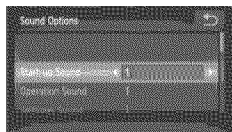


## Changing Camera Settings

You can customize convenient and commonly used functions from the **Y** tab (p. 47).

### Changing Sounds

You can change each of the camera's operation sounds.



- Touch [Sound Options].
- Drag up or down the screen to choose an option, then touch **▶** to choose a setting.

- |   |  |
|---|--|
| 1 | Preset sounds<br>(cannot be modified)  |
| 2 | Preset sounds<br>You can use the included software to<br>change the sounds (p. 2). |



Even if you change the shutter sound, it will have no effect in **H** (p. 80).

### Turning Off Hints & Tips

You can turn off this function. However, hints and tips for menus (p. 47) will always display.



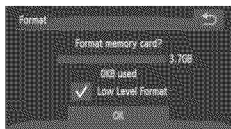
- Choose [Hints & Tips], then touch **▶** to choose [Off].

## Low Level Memory Card Formatting

Perform low level formatting when [Memory card error] appears, the camera does not operate properly, you think that the recording/reading speed of a memory card has dropped, or recording suddenly stops while shooting a movie. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.

### 1 Display the [Format] screen.

- Follow Steps 1 and 2 on p. 23.



### 2 Start the low level format.

- Touch the frame to the left of [Low Level Format] to display a ✓.
- Touch [OK].
- ▶ A confirmation screen will appear.
- Touch [OK].
- ▶ Low level formatting starts.
- ▶ When low level formatting ends, [Memory card formatting complete] will appear on the screen.
- Touch [OK].

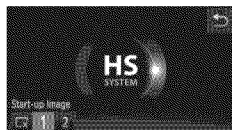


- Low level formatting may take longer than standard formatting (p. 23), since all recorded data is erased.
- You can stop a low level format of a memory card by touching [Stop]. When stopping low level formatting, the data will be erased but the memory card can be used without problem.



## Changing the Start-up Screen

You can change the start-up screen that appears when you turn on the camera.



- Touch [Start-up Image].
- Touch an option.

<input type="checkbox"/> x	No start-up image
1	Preset images (cannot be modified)
2	Preset images You can set recorded images, and use the included software to change the images.

## Registering Recorded Images as the Start-up Screen

When you press the button and set the camera to Playback mode, you can register an image.



- Touch [Start-up Image].
- Touch [2], then touch .



- Drag across the screen to choose an image, then touch [OK].
- ▼ The [Register?] screen will appear.
- Touch [OK].



Any previously registered start-up image will be overwritten when registering a new start-up image.



**Register the start-up image or sounds with the included software**

The dedicated operation sounds and start-up images on the included software can be registered to the camera. Refer to the *Software Guide* for details.

## Changing the Screen Color



- Choose [Color Option], then touch ◀▶ to choose an option.

## Changing the File Number Assignment

Images you shoot are automatically assigned file numbers in the order they were taken, from 0001 – 9999, and saved to folders of up to 2,000 images. You can change the file number assignment.



- Choose [File Numbering], then touch ◀▶ to choose an option.

Continuous

Even if you shoot using a new memory card, the file numbers are assigned consecutively until an image with the number 9999 is taken/saved.

Auto Reset

If you replace the memory card with a new one, or a new folder is created, file numbering begins with 0001 again.



- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both [Continuous] and [Auto Reset]. If you want to start over with file number 0001, format the memory card before use (p. 23).
- Refer to the *Software Guide* for information regarding folder structure or image types.

### Creating Folders by Shooting Date

Images are saved into folders created each month, however, you can also create folders by shooting date.



- Choose [Create Folder], then touch ◀▶ to choose [Daily].
- Images will be saved into folders created on each shooting date.

### Changing the Lens Retract Time

For safety reasons, the lens retracts about 1 minute after pressing the ▶ button when in a Shooting mode (p. 28). If you want the lens to retract immediately when you press the ▶ button, set the retract time to [0 sec.].



- Choose [Lens Retract], then touch ◀▶ to choose [0 sec.].

### Turning Off the Power Saving Function

You can set the power saving function (p. 52) to [Off]. Setting it to [On] is recommended to save battery power.



- Touch [Power Saving].
- Drag up or down the screen to choose [Auto Power Down], then touch ◀▶ to choose [Off].
- If you set the power saving function to [Off], be sure to turn the camera off after use.

## Setting the Screen Shut-Off Time

You can adjust the time the screen takes to shut off automatically (p. 52). This also works when [Auto Power Down] is set to [Off].



- Touch [Power Saving].
- Drag up or down the screen to choose [Display Off], then touch ◀▶ to choose a time.
- In order to save battery power, you should choose less than [1 min.].

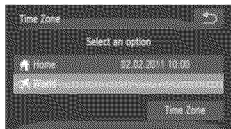
## Using the World Clock

When traveling abroad, you can record images with local dates and times simply by switching the time zone setting. If you pre-register the destination time zones, you can enjoy the convenience of not having to switch the Date/Time settings.



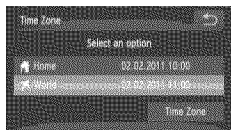
### 1 Set the home time zone.

- Touch [Time Zone].
- When setting this for the first time, check the information that displays on the screen on the left, then touch [Time Zone].
- Touch ◀▶ to choose the home time zone. Touch ☀<sub>OFF</sub> to set daylight saving time (adds 1 hour).
- Touch ↺.



### 2 Set the world time zone.

- Touch [✈ World], then touch [Time Zone].
- Touch ◀▶ to choose the destination time zone.
- You can also set the daylight saving time as in Step 1.
- Touch ↺.



### 3 Choose the world time zone.

- Touch [🌐 World], then touch ↶.
- ▶ 🌐 will appear in the [Time Zone] or shooting screen (p. 187).



If you change the date or time in the 🌐 setting (p. 20), your [🏠 Home] time and date will automatically change.

## Calibrating the Touch Panel

You can calibrate the touch panel if you are having difficulty choosing items or buttons. Be sure to use the toggle attached to the strap to calibrate the touch panel accurately.



- Touch [Calibration].



- Use the toggle attached to the strap to touch + that appears on the screen (p. 14).
- Follow the on-screen instructions and touch the screen four times in the following order: in the upper left, lower left, lower right and upper right parts of the screen.



Only use the attached toggle to perform operations. Do not use other objects, such as pens or pencils.

## Changing Shooting Function Settings

If you set the mode switch to **📷**, and the mode to **P**, you can change the settings in the **📷** tab (p. 47).



Before attempting to shoot using a function explained in this section in modes other than **P**, check if the function is available in those modes (pp. 196 – 197).

### Turning Off the AF Assist Beam

The lamp will automatically light to assist focusing in low light conditions when you press the shutter button halfway. You can turn off the lamp.



- Choose [AF-assist Beam], then touch **◀▶** to choose [Off].

### Turning Off the Red-Eye Reduction Function

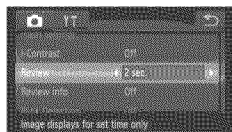
The red-eye reduction lamp lights in order to reduce the red-eye effect that occurs when shooting in dark conditions with the flash. You can turn off this function.



- Touch [Flash Settings].
- Drag up or down the screen to choose [Red-Eye Lamp], then touch **◀▶** to choose [Off].

## Changing the Image Display Time Right After Shooting

You can change the length of time the images display right after shooting.



- Choose [Review], then touch ◀▶ to choose an option.

2 – 10 sec.	Displays images for the set time.
Hold	The image displays until you press the shutter button halfway.
Off	Images will not display.

## Changing the Way the Image Displays Right After Shooting

You can change the way the image displays right after shooting.

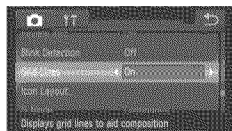


- Choose [Review Info], then touch ◀▶ to choose an option.

Off	Displays the image only.
Detailed	Displays detailed information (p. 189).
Focus Check	The area inside the AF frame is magnified, allowing you to check the focus. The procedure is the same as in “Checking the Focus” (p. 126).

## Displaying Grid Lines

You can display grid lines on the screen for vertical and horizontal guidance while shooting.



- Choose [Grid Lines], then touch ◀▶ to choose [On].



Grid lines will not be recorded on the image.

## Changing the IS-Mode Settings



- Choose [IS Mode], then touch **▶▶** to choose an option.

Continuous

Image stabilization is always on. You can confirm the effects directly on the display, which makes it easier to check the composition or focus. When shooting movies, the camera also reduces strong camera shake, for example when walking (Dynamic mode).

Shoot Only\*

Image stabilization is only active at the moment of shooting.

Panning\*

Image stabilization only counters up and down motion. This option is recommended for shooting objects moving horizontally.

Off

—

\* Setting changes to [Continuous] when shooting movies.



- If camera shake is too strong, attach the camera to a tripod. You should also set the IS Mode to [Off] when the camera is attached to a tripod.
- When using [Panning], hold the camera horizontally to shoot. Image stabilization does not work when the camera is held vertically.



## Changing Icon Order (Icon Layout)

You can add icons to the shooting screen, or change their arrangement.

### Adding Icons



#### 1 Display the settings screen.

- In a shooting screen, touch and hold one of the icons.
- When [Changes which icons appear and their positions] appears, lift your finger off the screen once, then touch the center of the screen.
- ▶ The setting screen shown to the left will appear.



#### 2 Add an icon.

- Drag the desired icon that appears in the center of the screen in Step 1 to the position you want.
- When you drag the icon near a position where it can be placed, an orange frame appears. Lift your finger off the screen to add the icon there. The icon will exchange places with any existing icon in that position.
- Positions with grayed out icons are unavailable.

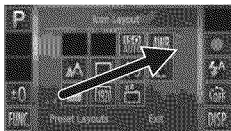
#### 3 Complete the setting.

- Touch [Exit].



If you have placed an icon in the upper right corner of the screen and then touch and hold that icon in Step 1, **!** will appear and the layout screen will not be displayed. Choose a different icon instead.



## Rearranging Icons



- Drag the desired icon that appears in the layout screen in Step 1 on p. 174 to the position you want.
- ▶ The icon will exchange places with any existing icon in that position.

## Removing Icons



- When in the layout screen that appears in Step 1 on p. 174, drag the icon you want to remove to the center and then to  that will appear on the lower part of the screen.
- If you drag an icon that cannot be removed,  will not appear.


## Preset Layouts

You can choose from 3 preset icon layouts. Only default icons will be displayed. Added icons will not appear.





- Touch [Preset Layouts] in the layout screen in Step 1 on p. 174.
- Touch the desired icon arrangement, then touch [OK].
- If you touch [Cancel], the layout will not change, and the settings screen will reappear.



You can also display the layout screen if you touch **FUNC.**, then **MENU**, and choose [Icon Layout] from the  tab.


## Changing Playback Function Settings

You can adjust the settings in the  tab by pressing the  button (p. 47).

### Turning Off Active Display


You can turn off Active Display (pp. 29, 127) so that gently tapping the side of the camera or tilting the camera does not cause images to switch.



- Choose [Active Display], then touch  to choose [Off].

### Choosing the Image that First Displays in Playback




- Choose [Resume], then touch  to choose an option.

Last seen	Resumes with the image last viewed.
Last shot	Resumes with the most recently shot image.

### Turning Off the Auto Rotate Function

When you play back images on the camera, images shot in vertical orientation automatically rotate and display vertically. You can turn off this function.



- Select [Auto Rotate], then touch  to select [Off].



- Images cannot be rotated (p. 144) if you have set [Auto Rotate] to [Off]. Rotated images will also appear in their original orientation.
- In Smart Shuffle (p. 130), even if [Auto Rotate] is set to [Off], images taken vertically will be displayed vertically, while rotated images will appear in their rotated orientation.

## Useful Information

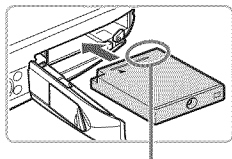
This chapter introduces how to use the AC adapter kit and Eye-Fi card (both sold separately), troubleshooting tips, and contains lists of functions and items that appear on the screen.

---

## Using Household Power

If you use AC Adapter Kit ACK-DC40 (sold separately), you can use the camera without worrying about how much charge is left in the battery.

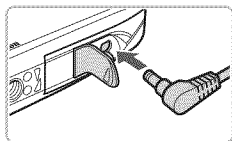
### 1 Turn off the camera.



Terminal

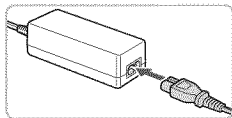
### 2 Insert the coupler.

- Follow Step 2 on p. 17 to open the cover, then insert the coupler as shown until it locks into place with a click.
- Follow Step 5 on p. 18 to close the cover.



### 3 Plug the cord into the coupler.

- Open the cover and fully insert the plug into the coupler.



### 4 Connect the power cord.

- Connect the power cord to the compact power adapter, then plug the other end into a power outlet.
- Turn the camera on to use it.
- After you finish, turn off the camera and unplug the power cord from the power outlet.



Do not unplug the plug or power cord with the camera turned on. This could erase images you have taken or damage the camera.

## Using an Eye-Fi Card

Before using an Eye-Fi card, be sure to check whether Eye-Fi card use is authorized in the country or territory of use (p. 17).

When you put a prepared Eye-Fi card into the camera, you can automatically transfer your images wirelessly to a computer, or upload them to a web service.







Image transfer is a function of the Eye-Fi card. For details on how to setup and use the card, and concerning problems transferring images, please refer to the Eye-Fi card user guide, or contact the manufacturer.



Please keep the following things in mind when using an Eye-Fi card.



- Even if you set [Eye-Fi trans.] to [Disable] (p. 180), the Eye-Fi card may transmit radio waves. Be sure to remove the Eye-Fi card from the camera before entering areas that prevent unauthorized transmission of radio waves, such as hospitals and airplanes.
- If you have trouble transferring images, check the card or computer settings. For details, refer to the user guide supplied with the card.
- Depending on the connection status of the wireless network, it may take time to transfer images, or image transfer may be interrupted.
- Due to its transfer function, the Eye-Fi card may become hot.
- Battery consumption will be quicker than in normal use.
- Camera operations will be slower than in normal use. This may be resolved by setting [Eye-Fi trans.] to [Disable].

If you put an Eye-Fi card into the camera, the connection status can be checked in the shooting screen (information display) and playback screen (simple information display).

 (Gray)	Not connected
 (Flashing white)	Connecting
 (White)	Transfer standby
 (Animated)	Transferring
	Interrupted
	Error retrieving Eye-Fi card info (Turn the camera off and on again. If this continues to appear, there may be a problem with the card.)

 will appear on transferred images.




- The power saving function does not work while transferring images (p. 52).
- Choosing  will interrupt the Eye-Fi connection. Choosing another Shooting mode or entering Playback mode will reopen the Eye-Fi connection, but movies made with  may be transferred again.

## Checking Connection Information

You can check the Eye-Fi card's access point SSID, or connection status.



### Choose [Connection info].



- Touch FUNC., then MENU to choose the  tab, and touch [Eye-Fi Settings].
- Touch [Connection info], then touch [Connection info] again.
- ▶ The connection info screen will appear.

## Disabling Eye-Fi Transfer

You can set the card to disable Eye-Fi transfer.



### Choose [Disable] in [Eye-Fi trans.].

- Touch FUNC., then MENU to choose the  tab, and touch [Eye-Fi Settings].
- Choose [Eye-Fi trans.], then touch  to choose [Disable].



### What if [Eye-Fi Settings] does not appear?

[Eye-Fi Settings] will not appear when an Eye-Fi card is not inserted in the camera, and when an Eye-Fi card's write-protect tab is in the locked position. For this reason, settings cannot be changed for Eye-Fi cards equipped with a write-protect tab when the tab is in the locked position.

# Troubleshooting

If you think there is a problem with the camera, first check the following. If the items below do not solve your problem, contact a Canon Customer Support Help Desk as listed on the included customer support list.

## Power

### You pressed the power button, but nothing happened.

- Confirm that the battery is the correct type, and is not depleted (p. 16).
- Confirm that the battery is properly inserted (p. 18).
- Confirm that the memory card/battery cover is securely closed (p. 18).
- If the battery terminals are dirty, battery performance will decrease. Clean the terminals with a cotton swab and re-insert the battery several times.

### Battery is consumed quickly.

- Battery performance decreases at low temperatures. Warm the battery, for example, by placing it in your pocket with the terminal cover on.

### Lens will not retract.

- Do not open the memory card/battery cover while the power is on. After closing the memory card/battery cover, turn the power on then back off (p. 18).

## TV Output

Image is distorted or not showing on TV (p. 134).

## Shooting

### Cannot shoot.


- When in Playback mode (p. 22), press the shutter button halfway (p. 24).


### Screen does not display properly in dark places (p. 45).


### Screen does not display properly while shooting.

Please note, the following will not be recorded in still images, but will be recorded in movies.

- When shooting under fluorescent or LED lighting, the screen may flicker, and a horizontal bar may appear.

**A flashing  appears on the screen and the shot cannot be taken even though the shutter button was pressed fully (p. 27).**

** appears when the shutter button is pressed halfway (p. 54).**

- Set the [IS mode] to [Continuous] (p. 173).
- Set the flash to  (p. 85).
- Increase the ISO speed (p. 88).
- Attach the camera to a tripod. Additionally, you should set the [IS Mode] to [Off] when shooting with a tripod (p. 173).




### **Image is blurred.**

- ✧ Press the shutter button halfway to focus on the subject, then press fully to shoot (p. 24).
- ✧ Shoot the subject within the focusing distance (p. 201).
- ✧ Set the [AF-assist Beam] to [On] (p. 171).
- ✧ Confirm that functions which you do not intend to use (macro, etc.) are not set.
- ✧ Shoot using the focus lock or AF lock (pp. 96, 99).


### **Even when you press the shutter button halfway, the AF frame does not appear, and the camera does not focus.**

- ✧ If you center on the light and dark contrasting area of the subject and push the shutter button halfway, or repeatedly push the shutter button halfway, the AF frame will appear and the camera will focus.

### **Subject is too dark.**

- ✧ Set the flash to  (p. 85).
- ✧ Correct the brightness with exposure compensation (p. 85).
- ✧ Adjust the image with i-Contrast (pp. 89, 149).
- ✧ Use spot metering or AE Lock to shoot (pp. 101, 102).


### **Subject is too bright (overexposed).**

- ✧ Set the flash to  (p. 54).
- ✧ Correct the brightness with exposure compensation (p. 85).
- ✧ Use spot metering or AE Lock to shoot (pp. 101, 102).
- ✧ Reduce the light illuminating the subject.

### **Image is dark even though the flash fired (p. 27).**

- ✧ Shoot within an appropriate distance for flash photography (p. 85).
- ✧ Increase the ISO speed (p. 88).

### **Image taken using the flash is too bright (overexposed).**

- ✧ Shoot within an appropriate distance for flash photography (p. 85).
- ✧ Set the flash to  (p. 54).

### **White dots appear on the image when shooting with the flash.**

- ✧ Light from the flash has reflected off dust particles or other objects in the air.

### **Image appears rough or grainy.**

- ✧ Shoot with the ISO speed on a lower setting (p. 88).
- ✧ Depending on the Shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (pp. 65, 66).

### **Eyes appear red (p. 104).**

- ✧ Set the [Red-Eye Lamp] to [On] (p. 171). When shooting with the flash, the lamp (on the front of the camera) lights (p. 42), and for approximately 1 second while the camera is reducing red-eye, it is not possible to shoot. It is more effective if the subject is looking directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject.
- ✧ Correct images with red-eye correction (p. 150).

## **Recording images to the memory card takes a long time, or continuous shooting slows down.**

- Perform a low-level format of the memory card in the camera (p. 165).

## **Cannot make settings for shooting functions or FUNC. menu.**

- The items in which settings can be made differ depending on the shooting mode. Refer to “Functions Available in Each Shooting Mode” and “Shooting Menu” (pp. 192 – 197).

## **Shooting Movies**

### **Correct shooting time does not display, or stops.**

- Format the memory card in the camera, or use a memory card capable of recording at high speeds. Even when the shooting time does not display properly, the recorded video will be the length that it was actually shot (pp. 23, 32).

### **! appeared on the screen and shooting ended automatically.**

The camera's internal memory was insufficient. Try one of the following:

- Perform a low-level format of the memory card in the camera (p. 165).
- Change the image quality setting (p. 116).
- Use a memory card capable of recording at high speeds (p. 116).

### **Subject appears distorted.**

- The subject may appear distorted if it passes quickly in front of the camera while shooting.

## **Playback**

### **Cannot play back images or movies.**

- If the file name or folder structure is changed on a computer, you may not be able to play back images or movies. Refer to the *Software Guide* for information regarding folder structure or file names.

### **Playback stops, or audio cuts out.**

- Use a memory card that has had a low-level format performed on it with this camera (p. 165).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, when playing movies on a computer, frames may drop or the audio may cut out.

## **Screen**

### **Touch operations do not work as expected.**

- Since the camera uses a pressure sensitive touch panel, try touching the screen slightly harder or use the toggle attached to the strap (p. 14).
- Calibrate the touch panel (p. 170).




### **! appears on the upper right of the screen.**

- You are touching the upper right part of the screen. Take your finger off the screen.

## Computer

### Cannot transfer images to a computer.

It may be possible to solve the problem when the camera is connected to a computer via cable by reducing the transfer speed.

- Turn off the camera. Keep the shutter button pressed fully and move the zoom lever toward , then press the  button. Now move the zoom lever toward . Touch [B] in the screen that appears, then touch it again.

## Eye-Fi Card

Cannot transfer images (p. 179).

## List of Messages That Appear on the Screen

If error messages appear on the screen, try one of the following solutions.

### No memory card

- The memory card is not installed in the correct direction. Install the memory card in the correct direction (p. 18).

### Memory card locked

- The SD memory card, SDHC memory card, SDXC memory card or Eye-Fi card's write protect tab is set to "LOCK". Unlock the write protect tab (p. 17).

### Cannot record!

- You attempted to shoot an image without a memory card. Install the memory card in the correct direction to shoot (p. 18).

### Memory card error (p. 165)

- If the same message appears even when a formatted memory card is installed in the correct direction, contact a Canon Customer Support Help Desk (p. 18).

### Insufficient space on card

- There is not enough free space on the memory card to shoot (pp. 25, 31, 53, 83, 111) or edit images (pp. 145 – 150). Erase the images (pp. 30, 139) to open space for new images, or insert an empty memory card (p. 17).

### Touch AF unavailable

- Touch AF cannot be used in your current Shooting mode (p. 192).
- You are touching the upper right part of the screen (p. 13). Only touch the location where you want to use Touch AF.

### Touch AF canceled

- The camera could no longer recognize the subject you selected using Touch AF (p. 98).

**Change the battery pack. (p. 17)****No image.**

- There are no images recorded on the memory card that can be displayed.

**Protected! (p. 137)****Unidentified Image/Incompatible JPEG/Image too large./Cannot play back AVI/RAW**

- Unsupported images, or images with corrupted data cannot be displayed.
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not display.

**Cannot magnify!/Cannot play back this content in Smart Shuffle/Cannot rotate/Cannot modify image/Cannot register this image!/Cannot modify/ Cannot assign to category/Unselectable image.**

- Incompatible images cannot be magnified (p. 127), played back in Smart Shuffle (p. 130), tagged as favorites (p. 141), rotated (p. 144), edited (pp. 145 – 150), registered to the start-up screen (p. 166), categorized (p. 143), or added to a print list (p. 159).
- Grouped images cannot be processed (p. 80).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, played back in Smart Shuffle, tagged as favorites, rotated, edited, registered to the start-up screen, categorized, or added to a print list.
- Movies cannot be magnified (p. 127), played back in Smart Shuffle (p. 130), edited (pp. 145 – 150), added to a print list (p. 159), or registered to the start-up screen (p. 166).

**Exceeded selection limit**

- You chose more than 998 images in print settings. Choose less than 998 images (p. 161).
- Print settings could not be saved correctly. Reduce the number of selected images and try again (p. 161).
- You chose 501 or more images in Protect (p. 137), Erase (p. 139), Favorites (p. 141), My Category (p. 143) or Print Settings (p. 159).

**Communication error**

- Images could not be transferred to the computer or printed due to the large amount of images (approx. 1000) stored on the memory card. Use a commercially available USB card reader to transfer the images. Insert the memory card into the printer's card slot to print.

**Naming error!**

- The folder or image could not be created because there is an image with the same file name as the folder or image that the camera is attempting to create, or the highest possible file number has already been reached. In the **FF** menu, change [File Numbering] to [Auto Reset] (p. 167) or format the memory card (p. 23).

## List of Messages That Appear on the Screen

### **Lens Error**

- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.
- If this error message continues to appear, contact a Canon Customer Support Help Desk as there may be a problem with the lens.

### **A camera error was detected (Error number)**

- If an error code appears directly after taking a picture, the shot may not have been recorded. Check the image in Playback mode.
- If this error code reappears, note the Error number (Exx) and contact a Canon Customer Support Help Desk as there may be a problem with the camera.

### **File Error**

- Photos from other cameras or images that have been altered using computer software may not be printable.

### **Print error**

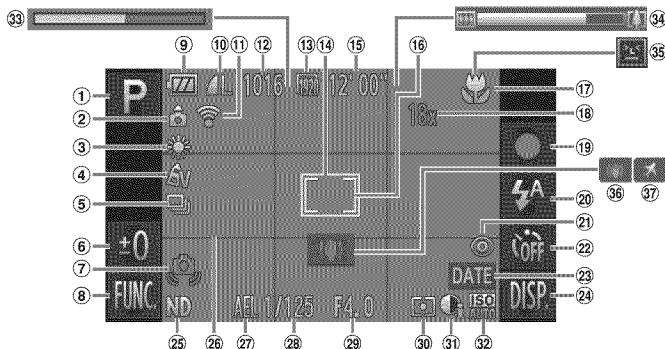
- Check the paper size settings. If this message appears when the settings are correct, turn the printer off and back on, then make the settings again.

### **Ink absorber full**

- Contact a Canon Customer Support Help Desk for an ink absorber replacement.

# Information Displayed on the Screen

## Shooting (Information Display)



- |   |  |   |
|---|--|---|
| ① Shooting Mode (p. 192),<br>Scene Icon (p. 188)                                | ⑫ Recordable Shots (p. 61)   | ⑳ DISP. (Display) (p. 44)                           |
| ② Camera Orientation*   | ⑬ Image Quality (Movies)<br>(p. 116)   | ㉑ ND Filter (p. 27)                                 |
| ③ White Balance (p. 86)   | ⑭ AF Frame (p. 95)   | ㉒ Grid Lines (p. 172)                               |
| ④ My Colors (p. 92)   | ⑮ Remaining Time (p. 116)  | ㉓ AE Lock (p. 102), FE<br>Lock (p. 102)             |
| ⑤ Drive Mode (p. 91)  | ⑯ Spot AE Point Frame<br>(p. 101)  | ㉔ Shutter Speed (p. 108)                            |
| ⑥ Exposure Compensation<br>Amount (p. 85)                                       | ⑰ Focusing Range (p. 94),<br>AF Lock (p. 99)                                 | ㉕ Aperture Value (p. 109)                           |
| ⑦ Camera Shake Warning<br>(p. 26)   | ⑱ Digital Zoom Magnification<br>(p. 55) / Digital Tele-<br>converter (p. 56) | ㉖ Metering Method (p. 101)                          |
| ⑧ FUNC. (Function) (p. 46)  | ㉒ Shooting Movies (p. 31)  | ㉗ i-Contrast (p. 89)                                |
| ⑨ Battery Charge Indicator<br>(p. 16)   | ㉓ Flash Mode (pp. 54, 85)  | ㉘ ISO Speed (p. 88)                                 |
| ⑩ Compression (Image<br>Quality) (p. 60) /<br>Recording Pixels (pp. 60,<br>116) | ㉔ Red-Eye Correction<br>(p. 150)   | ㉙ Super Slow Motion Movie<br>Shooting Time (p. 114) |
| ⑪ Eye-Fi Connection<br>Status (p. 179)  | ㉕ Self-Timer (pp. 58, 59)  | ㉚ Zoom Bar (p. 26)                                  |
|   | ㉖ Date Stamp (p. 57)   | ㉛ Blink Detection (p. 105)                          |
|   |  | ㉜ Image Stabilizer (p. 173)                         |
|   |  | ㉝ Time Zone (p. 169)                                |

\* : Standard, : Held vertically

When shooting, the camera detects if it is held vertically or horizontally, and adjusts settings accordingly for the best shot. It also detects orientation during playback, so you can hold the camera in either orientation and it will automatically rotate images for correct viewing.

This function may not operate correctly when the camera is pointed straight up or down.

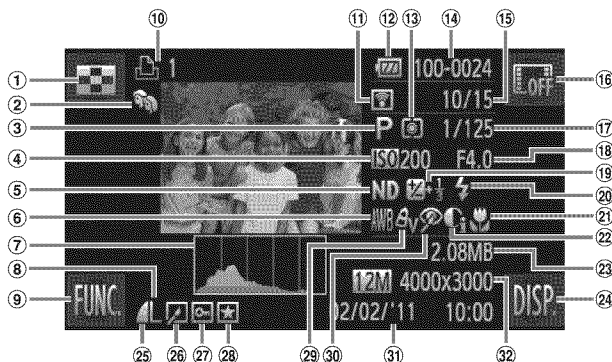
## Scene Icons

In **AUTO** mode, the camera displays an icon for the scene it has determined and then automatically focuses and selects the optimum settings for subject brightness and color.

Subject	People			Non-Human Subjects			Icon Background Color
		When Moving	With Strong Facial Shadows		When Moving	When Close	
Background							
Bright							Gray
Backlit			—				
Including Blue Skies							Light Blue
Backlit			—				
Sunsets	—				—		Orange
Spotlights							Dark Blue
Dark							
When Using Tripod	*	—		*	—		

\* Appears when the scene is dark and the camera is attached to a tripod.









## Playback (Detailed Information Display)



- |  |   |  |
|--|---|--|
| ① Index Display (p. 120)   | ⑬ Metering Method (p. 101)  | ⑳ File Size (pp. 61, 116)                                |
| ② My Category (p. 143)   | ⑭ Folder Number – File Number (p. 167)  | ㉑ DISP. (Display) (p. 44)                                |
| ③ Movies (p. 33), High-speed Burst (p. 80), Shooting Mode (p. 192) | ⑮ Displayed image number / Total number of images                                     | ㉒ Compression (Image Quality) (p. 60)                    |
| ④ ISO Speed (p. 88), Playback Speed (Movies) (p. 114)              | ⑯ No Information Display (p. 44)  | ㉓ Group Playback (p. 128), Image Editing (pp. 145 – 150) |
| ⑤ ND Filter (p. 27)  | ⑰ Shutter Speed (Still Images) (p. 108), Image Quality / Frame Rate (Movies) (p. 116) | ㉔ Protect (p. 137)                                       |
| ⑥ White Balance (p. 86)  | ⑱ Aperture Value (p. 109)   | ㉕ Favorites (p. 141)                                     |
| ⑦ Histogram (p. 45)  | ㉒ Exposure Compensation Amount (p. 85)  | ㉖ My Colors (pp. 92, 148)                                |
| ⑧ Recording Pixels (pp. 60, 116), MOV (Movies)                     | ㉓ Flash (p. 85)   | ㉗ Red-Eye Correction (p. 150)                            |
| ⑨ FUNC. (Function) (p. 46)   | ㉔ Focusing Range (p. 94)  | ㉘ Shooting Date and Time (p. 20)                         |
| ⑩ Print List (p. 159)  | ㉕ i-Contrast (pp. 89, 149)  | ㉙ Still Images: Recording Pixels (p. 60)                 |
| ⑪ Eye-Fi Transfer Complete (p. 179)                                |   | ㉚ Movies: Movie Length (p. 116)                          |
| ⑫ Battery Charge Indicator (p. 16)                                 |   |  |



## Summary of Movie Control Panel in “Viewing Movies” (p. 33)

	Exit
	Touch to display the volume panel, then touch ▲▼ to adjust the volume. When the volume is set to 0, 🔊 will appear.
	Playback
	Skip backward* (Continues to skip backward if you keep touching the screen.)
	Previous frame (Slow rewind if you touch and hold the icon.)
	Next frame (Slow advance if you touch and hold the icon.)
	Skip forward* (Continues to skip forward if you keep touching the screen.)
	Edit (p. 117)

\* Displays the frame approx. 4 sec. before or after the current frame.
















- You can skip forward or backward if you lightly tap the camera (p. 29) while viewing a movie (Active Display).
- Touch the scroll bar, or drag it left or right to change the displayed frame.


## Handling Precautions

- This camera is a high-precision electronic device. Do not drop it or subject it to strong impacts.
- Never place the camera close to magnets, motors or other devices that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
- If water droplets or dirt become stuck on the camera or screen, wipe with a dry soft cloth or eyeglass wiper. Do not rub or apply force.
- Never use cleaners containing organic solvents to wipe the camera or screen.
- Use a commercially available blower brush to remove dust from the lens. For stubborn dirt contact a Canon Customer Support Help Desk as listed on the customer support leaflet supplied with your camera.
- When you move the camera rapidly from cold to hot temperatures, condensation may form on the internal or external surfaces of the camera. To avoid condensation, put the camera in an airtight, resealable plastic bag and let it adjust to temperature changes slowly before removing it from the bag.
- If condensation has formed on the camera, stop using it immediately, as continued use may damage the camera. Remove the battery and memory card, and wait until the moisture has completely evaporated before resuming use.

# Functions Available in Each Shooting


Shooting Modes											
Function		AUTO	P	Av	Tv						
Exposure Compensation (p. 85)		—	○	○	○	○	○	○	○	○	○
Flash (pp. 54, 85)	 <sup>A</sup>	○	○	—	—	○	○	○	○	○	○
		—	○	○	○	○	○	○	○	○	○
	 <sup>1</sup>	*1	○	○	—	○	—	—	—	—	—
		○	○	○	○	○	○	○	○	○	○
Self-Timer (pp. 58, 59)		○	○	○	○	○	○	○	○	○	○
	  	○	○	○	○	○	○	○	—	—	—
Self-Timer Settings (p. 59)	Delay <sup>*3</sup>	○	○	○	○	○	○	○	—	—	—
	Shots <sup>*4</sup>	○	○	○	○	—	○	○	—	—	—
AE Lock/FE Lock <sup>*5</sup> (p. 102)		—	○	○	○	○	—	—	—	—	—
AF Lock (p. 99)		—	○	○	○	○	—	—	—	—	—
Touch AF (p. 98)		○	○	○	○	—	○	○	*6	*6	*6
Screen Display (p. 44)	Information/ No Information	○	○	○	○	○	○	○	○	○	○

\*1 Not selectable but switches to  depending on the circumstances.

\*2 Not selectable but switches to  when the flash fires.

\*3 Cannot be set to 0 seconds when in modes where the number of shots cannot be set.

\*4 Fixed to 1 shot when in modes where the number of shots cannot be set.

\*5 FE Lock not available when set to .

\*6 Only available when a face is detected.

# Functions Available in Each Shooting Mode

○	—	○	○	○	○	○	○	—	○	○	—	—	○	○	○	○	○	—	—
—	—	—	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	—	—
—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—
—	—	—	—	—	—	—	—	*2	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	—	—	○	—	—	—	○	○	○	○	○	○	○	○	○	○	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○ Selectable, or set automatically. — Not selectable.

# Functions Available in Each Shooting Mode

Shooting Modes											
Function		AUTO	P	Av	Tv						
FUNC. Menu											
Metering Method (p. 101)		○	○	○	○	○	○	○	○	○	○
		—	○	○	○	○	—	—	—	—	—
My Colors (p. 92)	OFF	○	○	○	○	○	○	○	○	○	○
	Av AN Ae <sup>*1</sup>	—	○	○	○	○	—	—	○	○	○
	AW <sup>*1</sup> AP AL AD	—	○	○	○	○	—	—	○	○	○
	AB AG AR AC <sup>*2</sup>	—	○	○	○	○	—	—	○	○	○
White Balance (p. 86)	AWB	○	○	○	○	○	○	○	○	○	○
		—	○	○	○	○	—	—	○	○	○
ISO Speed (p. 88)	ISO AUTO	○	○	○	○	○	○	○	○	○	○
	ISO 100 200 400 800	—	○	○	○	○	—	—	—	—	—
Focusing Range (p. 94)		○	○	○	○	○	○	○	○	○	○
		—	○	○	○	○	○	—	—	—	—
Drive Mode (p. 91)		○	○	○	○	○	○	○	○	○	○
		—	○	○	○	—	○	○	—	—	—
Aspect Ratio (Still Images) (p. 90)	16:9 3:2 4:3 1:1	○	○	○	○	—	○	○	○	○	○
Recording Pixels (p. 60)	L	○	○	○	○	○	○	○	○	○	○
	M1 M2	○	○	○	○	○	○	○	○	○	○
	M	—	—	—	—	—	—	—	—	—	—
	S	○	○	○	○	○	○	○	○	○	○
Compression Ratio (p. 60)		○	○	○	○	○	○	○	○	○	○
Image Quality (Movies) (pp. 114, 116)	1920	○	○	○	○	○	○	○	○	○	○
	1280	○	○	○	○	○	○	○	○	○	○
	640	○	○	○	○	○	○	○	○	○	○
	320	○	○	○	○	○	○	○	○	○	○
	128 640	—	—	—	—	—	—	—	—	—	—

\*1 White balance is not selectable.

\*2 Contrast, sharpness, color saturation, red, green, blue, and skin tone can be set in 5 levels.

\*3 Only 4:3 and 16:9 are available.












# Functions Available in Each Shooting Mode

FUNC. Menu																		
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	—	○	—	—	—	—	—	—	—	—	—	—	—	—	○	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○
—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	*3	—	○	○	○	○	○	○	○	○	○	○	—	—
—	—	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○
○	○	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—
○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○

○ Selectable, or set automatically. — Not selectable.

# Menus

## Shooting Menu

Function		Shooting Modes										
												
AF Frame (p. 95)	Face AiAF*1	○	○	○	○	○	○	○	○	○	○	○
	Fixed frame	—	○	○	○	○	○	○	—	—	—	—
AF Frame Size*2 (p. 96)	Normal	—	○	○	○	○	○	○	—	—	—	—
	Small	—	○	○	○	○	○	○	—	—	—	—
Digital Zoom (p. 55)	Standard	○	○	○	○	○	○	○	○	○	○	○
	Off	○	○	○	○	○	○	○	○	○	○	○
	Digital Tele-converter (1.5x/2.0x)	○	○	○	○	○	○	○	○	○	○	○
AF-Point Zoom (p. 97)	On	○	○	○	○	—	○	—	○	○	○	○
	Off	○	○	○	○	○	○	○	○	○	○	○
Servo AF (p. 100)	On	—	○	○	○	—	○	○	—	—	—	—
	Off*3	○	○	○	○	○	○	—	○	○	○	○
AF-assist Beam (p. 171)	On	○	○	○	○	○	○	○	○	○	○	○
	Off	○	○	○	○	○	○	○	—	○	○	○
Flash Settings (pp. 104, 171)	Red-Eye Corr.	On	○	○	○	○	○	○	○	○	○	○
		Off	○	○	○	○	○	○	○	○	○	○
	Red-Eye Lamp	On/Off	○	○	○	○	○	○	○	○	○	○
i-Contrast (p. 89)	Auto	○	○	○	○	○	—	—	—	—	—	—
	Off	—	○	○	○	○	○	○	○	○	○	○
Safety Shift (p. 110)	On	—	—	○	○	—	—	—	—	—	—	—
	Off	○	○	○	○	○	○	○	○	○	○	○
Review (p. 172)	Off/2 – 10 sec./Hold	○	○	○	○	○	○	○	○	○	○	○
Review Info (p. 172)	Off/Detailed/Focus Check	○	○	○	○	○	○	○	○	○	○	○
Blink Detection (p. 105)	On	○	○	○	○	○	○	○	○	○	○	○
	Off	○	○	○	○	○	○	○	○	○	○	○
Grid Lines (p. 172)	On/Off	○	○	○	○	○	○	○	○	○	○	○
Icon Layout (p. 174)		○	○	○	○	○	○	○	○	○	○	○
IS Mode (p. 173)	Off	—	○	○	○	○	○	○	○	○	○	○
	Continuous	○	○	○	○	○	○	○	○	○	○	○
	Shoot Only	—	○	○	○	○	○	○	○	○	○	○
	Panning	—	○	○	○	○	○	○	○	○	○	○
Date Stamp (p. 57)	Off	○	○	○	○	○	○	○	○	○	○	○
	Date/Date & Time	○	○	○	○	○	○	○	○	○	○	○

\*1 Operation differs depending on the shooting mode when faces are not detected.

\*2 Available when the AF frame is set to [Fixed frame]. \*3 [On] when moving people are detected in **AUTO**.





## Set up Menu

Item	Content	Ref. Page
Mute	On/Off*	p. 49
Volume	Set all operation sounds (5 levels).	p. 49
Sound Options	Set the sounds for each camera operation.	p. 164
Hints & Tips	On*/Off	p. 164
LCD Brightness	Sets screen brightness (5 levels).	p. 50
Start-up Image	Add an image as a start-up image.	p. 166
Color Option	Orange*/Blue Gray/Khaki/Pink	p. 167
Format	Formats memory card, erasing all data	pp. 23, 165
File Numbering	Continuous*/Auto Reset	p. 167
Create Folder	Monthly*/Daily	p. 168
Lens Retract	1 min.* / 0 sec.	p. 168
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec. / 1*, 2 or 3 min.	pp. 52, 168, 169
Time Zone	Home*/World	p. 169
Date/Time	Date and time settings	p. 21
Video System	NTSC/PAL	p. 134
Ctrl via HDMI	Enable/Disable*	p. 135
Calibration	Calibrates the touch panel.	p. 170
Eye-Fi Settings	Eye-Fi connection settings (only appears when Eye-Fi card is inserted)	p. 179
Language	Choose display language.	p. 22
Reset All	Returns camera to default settings.	p. 51

\* Default setting

## Playback Menu

Item	Content	Ref. Page
Slideshow	Plays back images automatically.	p. 124
Erase	Erases images (Select, All Images).	p. 139
Protect	Protects images (Select, All Images).	p. 137
Rotate	Rotates images.	p. 144
Favorites	Tags or untags images as favorites.	p. 141
My Category	Categorizes images.	p. 143
i-Contrast	Corrects dark portions and contrast in still images.	p. 149
Red-Eye Correction	Corrects red eyes in still images.	p. 150
Trimming	Trims portions of still images.	p. 146
Resize	Resizes and saves still images.	p. 145
My Colors	Adjusts colors in still images.	p. 148
Active Display	On*/Off	p. 176
Scroll Display	On*/Off	p. 121
Group Images	On*/Off	p. 129
Auto Rotate	On*/Off	p. 176
Resume	Last seen*/Last shot	p. 176
Transition	Fade*/Scroll/Slide/Off	p. 131
Set Touch Actions	Register a playback function to a drag pattern.	p. 132

\* Default setting

## Print Menu

Item	Content	Ref. Page
Print	Displays printing screen (When connected to a printer).	—
Select Images & Qty.	Chooses individual images for printing.	p. 161
Select All Images	Chooses all images for printing.	p. 162
Clear All Selections	Cancels all settings for printing.	p. 162
Print Settings	Sets the printing style.	p. 160

## Playback Mode FUNC. Menu

Item	Content	Ref. Page
Rotate	Rotates displayed image.	p. 144
Print List	Selects or clears settings for printing displayed image ([Print] appears when the camera is connected to the printer).	p. 159
Protect	Protects/unlocks displayed image.	p. 137
Favorites	Tags/untags displayed image as favorites.	p. 141
Erase	Erases displayed image.	p. 139
Movie Digest Playback	Plays back movies made in the Movie Digest mode.	p. 122
Smart Shuffle	Starts Smart Shuffle.	p. 130
Filtered Playback	Filters/cancels filter for displayed image.	p. 123
Slideshow	Plays back images automatically.	p. 124
My Category	Categorizes images.	p. 143

# Specifications

## Image Sensor

Camera Effective Pixels ..... Approx. 12.1 million pixels

## Lens

Focal Length ..... 4.4x zoom: 4.3 (W) – 18.8 (T) mm  
(35mm film equivalent: 24 (W) – 105 (T) mm)  
Focusing Range ..... 3 cm (1.2 in.) – infinity (W), 40 cm (1.3 ft.) – infinity (T)  
• Macro 3 – 50 cm (W) (1.2 in. – 1.6 ft. (W))

Image Stabilizer System ..... Lens-shift type

Imaging Processor ..... DIGIC 4

## LCD Monitor

Type ..... TFT color (wide viewing angle type)  
Size ..... 3.2 type  
Effective Pixels ..... Approx. 461,000 dots  
Aspect Ratio ..... 16:9  
Features ..... Touch panel  
Brightness adjustment (5 levels)

## Focus

Control System ..... Autofocus: Single (Continuous in Auto mode), Servo AF/  
Servo AE, Touch AF  
AF Frame ..... Face AiAF, Fixed frame

Metering System ..... Evaluative, Center-weighted average, Spot

## Exposure Compensation

(Still Images) /

Exposure Shift (Movies) .....  $\pm 2$  stops in 1/3-stop increments

## ISO Speed

(Standard Output Sensitivity,

Recommended Exposure Index) ..... Auto, ISO 100/200/400/800/1600/3200

White Balance ..... Auto, Day Light, Cloudy, Tungsten, Fluorescent,  
Fluorescent H, Custom

Shutter Speed ..... 1 – 1/1600 sec.  
15 – 1/1600 sec. (Total shutter speed range)

## Aperture

Type ..... Iris (Used together with ND filter)  
f/number ..... f/2.0 – f/8.0 (W), f/5.8 – f/8.0 (T)

## Flash

Modes ..... Auto, on, Slow Synchro, off  
Range ..... 50 cm – 5.0 m (W), 50 cm – 2.0 m (T)  
(1.6 – 16 ft. (W), 1.6 – 6.6 ft. (T))

## Specifications

Shooting Modes .....	Auto*1, P, Av, Tv, Movie Digest, Portrait, Kids&Pets, Smart Shutter*2, High-speed Burst, Best Image Selection, Handheld Night Scene, Low Light, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Creative Light Effect, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap, Beach, Foliage, Snow, Fireworks, iFrame Movie, Super Slow Motion Movie
	• Movies are recorded by pressing the movie button.
	*1 Smart Auto also available for movies
	*2 Smile, Wink Self-timer, Face Self-timer
Digital Zoom .....	Still images/Movies: Approx. 4.0x (up to approx. 18x in combination with the optical zoom) Safety Zoom, Digital tele-converter
Continuous Shooting	
Mode .....	Normal
Speed (Normal) .....	Approx. 3.4 shots/sec. (In P mode) Approx. 8.2 shots/sec. (In High-speed Burst mode)
Number of Shots (Approximate) (CIPA compliant) .....	Approx. 180
Recording Media .....	SD memory card, SDHC memory card, SDXC memory card, MultiMediaCard, MMC <i>plus</i> card, HC MMC <i>plus</i> card
File Format .....	Design rule for Camera File system, DPOF (Version 1.1) compliant
Data Type	
Still Images .....	Exif 2.3 (JPEG)
Movies .....	Movies: MOV (Image data: H.264; Audio data: Linear PCM (stereo))
Number of Recording Pixels	
Still Images .....	16:9 Large: 4000 x 2248, Medium 1: 2816 x 1584, Medium 2: 1920 x 1080, Small: 640 x 360 3:2 Large: 4000 x 2664, Medium 1: 2816 x 1880, Medium 2: 1600 x 1064, Small: 640 x 424 4:3 Large: 4000 x 3000, Medium 1: 2816 x 2112, Medium 2: 1600 x 1200, Small: 640 x 480 1:1 Large: 2992 x 2992, Medium 1: 2112 x 2112, Medium 2: 1200 x 1200, Small: 480 x 480

Movies.....	<p>Super Slow Motion Movie:          640 x 480 (120 fps<sup>*1</sup> when shooting, 30 fps<sup>*2</sup> during playback), 320 x 240 (240 fps<sup>*3</sup> when shooting, 30 fps<sup>*2</sup> during playback)          Miniature Effect:          1280 x 720<sup>*4</sup>, 640 x 480<sup>*4</sup>          iFrame Movie: 1280 x 720 (30 fps<sup>*2</sup>)          Movies other than the above: 1920 x 1080 pixels (24 fps<sup>*5</sup>), 1280 x 720 (30 fps<sup>*2</sup>), 640 x 480 (30 fps<sup>*2</sup>), 320 x 240 (30 fps<sup>*2</sup>)          *1 Actual frame rate is 119.88 fps.          *2 Actual frame rate is 29.97 fps.          *3 Actual frame rate is 239.76 fps.          *4 Shooting: 6 fps/3 fps/1.5 fps, Playback: 30 fps<sup>*2</sup>          *5 Actual frame rate is 23.976 fps.</p>
Interface.....	<p>Hi-Speed USB          HDMI output          Analog audio output (stereo)          Analog video output (NTSC/PAL)</p>
Direct Print Standard .....	PictBridge
Power Source .....	<p>Battery Pack NB-6L          Compact Power Adapter CA-DC10 (when used with DC Coupler DR-40)</p>
Dimensions (CIPA compliant).....	100.6 x 55.4 x 25.0 mm (3.96 x 2.18 x 0.98 in.)
Weight (CIPA compliant) .....	<p>Approx. 185 g (6.53 oz.) (Including the battery and memory card)          Approx. 165 g (5.82 oz.) (camera body only)</p>

## Specifications

### Battery Pack NB-6L

Format .....	Rechargeable Lithium-ion Battery Pack
Nominal Voltage .....	3.7 V DC
Nominal Capacity .....	1000 mAh
Charging Cycles .....	Approx. 300 times
Operating Temperatures .....	0 – 40 °C (32 – 104 °F)
Dimensions .....	34.4 x 41.8 x 6.9 mm (1.35 x 1.65 x 0.27 in.)
Weight .....	Approx. 21 g (Approx. 0.74 oz.)

### Battery Charger CB-2LY/CB-2LYE

Rated Input .....	100 V – 240 V AC (50/60 Hz), 0.085 A (100 V) – 0.05 A (240 V)
Rated Output .....	4.2 V DC, 0.7 A
Charge Time .....	Approx. 1 hour 55 min. (when using NB-6L)
Operating Temperatures .....	0 – 40 °C (32 – 104 °F)
Dimensions .....	58.6 x 86.4 x 24.1 mm (2.31 x 3.40 x 0.95 in.)
Weight .....	Approx. 70 g (Approx. 2.47 oz.) (CB-2LY) Approx. 61 g (Approx. 2.15 oz.) (CB-2LYE) (excluding power cord)

- \* All data is based on tests by Canon.
- \* Camera specifications or appearance are subject to change without notice.

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